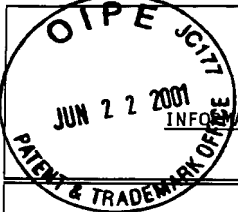
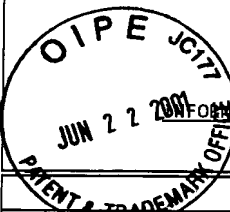


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 <p>FORM PTO-1449</p> <p>INFORMATION DISCLOSURE STATEMENT</p>				ATTY. DOCKET NO. 1533.1030002/SRL/SEZ		APPLICATION NO. 09/722,441	
				APPLICANT Hanke <i>et al.</i>			
				FILING DATE November 28, 2000		GROUP 1645	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
KK	AA1	2,979,439	04/11/1961	Kinoshita <i>et al.</i>	195	47	11/04/1958
KK	AB1	3,565,951	02/23/1971	Ishida <i>et al.</i>	260	527	03/20/1967
KK	AC1	3,687,810	08/29/1972	Kurihara <i>et al.</i>	195	29	06/08/1970
KK	AD1	3,700,557	10/24/1972	Nakayama <i>et al.</i>	195	29	08/06/1968
KK	AE1	3,707,441	12/26/1972	Shiio <i>et al.</i>	195	29	03/09/1970
KK	AF1	3,708,395	01/02/1973	Nakayama <i>et al.</i>	195	29	07/13/1970
KK	AG1	3,825,472	07/23/1974	Kubota <i>et al.</i>	195	29	10/02/1973
KK	AH1	4,169,763	10/02/1979	Nakayama <i>et al.</i>	435	115	07/11/1977
KK	AI1	4,560,654	12/24/1985	Miwa <i>et al.</i>	435	115	05/07/1981
KK	AJ1	4,861,722	08/29/1989	Sano <i>et al.</i>	435	252.32	06/01/1987
KK	AK1	4,954,441	09/04/1990	Katsumata <i>et al.</i>	435	115	05/25/1989
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
KK	AL1	EP 0 811 682 A2	12/10/1997	Europe			Yes No
KK	AM1	EP 0 854 189 A2	07/22/1998	Europe			Yes No
KK	AN1	WO 00/63388	10/26/2000	WIPO			Yes X No
KK	AO1	WO 96/34961	11/07/1996	WIPO			Yes No
KK	AP1	EP 0 754 756 A1	01/22/1997	Europe			Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
KK	AR	1	Archer, J. and Sinskey, A.J., "The DNA sequence and minimal replicon of the <i>Corynebacterium glutamicum</i> plasmid pSR1: evidence of a common ancestry with plasmids from <i>C. diphtheriae</i> ," <i>J. Gen. Microbiol.</i> 139:1753-1759, Cambridge University Press (1993).				
KK	AS	1	Ben-Samoun, K. <i>et al.</i> , "Positively regulated expression of the <i>Escherichia coli</i> araBAD promoter in <i>Corynebacterium glutamicum</i> ," <i>FEMS Microbiol. Lett.</i> 174:125-130, Federation of European Microbiological Societies and Elsevier Science B.V. (May 1999).				
KK	AT	1	Bowie, J.U. <i>et al.</i> , "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> 247:1306-1310, American Association for the Advancement of Science (1990).				
EXAMINER <i>Kathleen Ka</i>					DATE CONSIDERED 5/13/02		
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	APPLICANT Hanke <i>et al.</i>		FILING DATE November 28, 2000	GROUP 1645

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
KK	AA2	4,980,285	12/25/1990	Sano <i>et al.</i>	435	108	09/25/1989
KK	AB2	5,236,831	08/17/1993	Katsumata <i>et al.</i>	435	106	02/02/1990
KK	AC2	5,243,039	09/07/1993	Schendel <i>et al.</i>	536	23.2	04/12/1991
KK	AD2	5,426,052	06/20/1995	Flickinger <i>et al.</i>	536	23.2	05/10/1991
KK	AE2	5,631,150	05/20/1997	Harkki <i>et al.</i>	435	105	01/03/1995
KK	AF2	5,650,304	07/22/1997	Ishii <i>et al.</i>	435	115	02/03/1995
KK	AG2	5,661,012	08/26/1997	Sano <i>et al.</i>	435	115	07/01/1994
KK	AH2	5,688,671	11/18/1997	Sugimoto <i>et al.</i>	435	115	10/27/1995
KK	AI2	5,693,781	12/02/1997	Zupancic <i>et al.</i>	536	24.1	06/15/1993
KK	AJ2	5,700,661	12/23/1997	Katsumata <i>et al.</i>	435	69.1	06/03/1996
KK	AK2	5,707,828	01/13/1998	Sreekrishna <i>et al.</i>	435	69.1	05/03/1995

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KK	AR	2	Brutlag, D.L. <i>et al.</i> , "Improved sensitivity of biological sequence database searches," <i>Comp. App. Biosci.</i> 6:237-245, IRL Press (1990)
KK	AS	2	Copeland, R.A., "Cooperativity in Enzyme Catalysis," in <i>Enzymes. A Practical Introduction to Structure, Mechanism, and Data Analysis</i> , pages 279-296, Wiley-VCH, New York (1996).
KK	AT	2	Cremer, J. <i>et al.</i> , "Control of the Lysine Biosynthesis Sequence in <i>Corynebacterium glutamicum</i> as Analyzed by Overexpression of the Individual Corresponding Genes," <i>Appl. Environ. Microbiol.</i> 57:1746-1752, American Society for Microbiology (1991).

EXAMINER <i>Hanke et al.</i>	DATE CONSIDERED 5/13/02
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INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
KK 12/12/02	AA3	5,726,299	03/10/1998	Zupancic <i>et al.</i>	536	24.1	08/01/1994
KK	AB3	5,759,828	06/02/1998	Tal <i>et al.</i>	435	172.3	09/20/1994
KK	AC3	5,766,925	06/16/1998	Sugimoto <i>et al.</i>	435	252.32	10/08/1996
KK	AD3	5,773,691	06/30/1998	Falco <i>et al.</i>	800	205	06/07/1995
KK	AE3	5,846,790	12/08/1998	Kimura <i>et al.</i>	435	110	02/18/1997
KK	AF3	5,888,783	03/30/1999	Tomita <i>et al.</i>	435	115	02/28/1997
KK	AG3	5,919,670	07/06/1999	Okamoto <i>et al.</i>	435	106	06/18/1998
KK	AH3	5,965,391	10/12/1999	Reinscheid <i>et al.</i>	435	69.1	05/08/1997
KK	AI3	6,004,773	12/21/1999	Araki <i>et al.</i>	435	41	12/05/1997
KK	AJ3	6,027,920	02/22/2000	Joliff <i>et al.</i>	435	69.7	07/31/1995
KK	AK3	6,057,299	05/02/2000	Henderson	514	44	09/27/1996

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

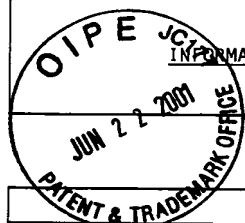
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KK	AR	3	Cremer, J. <i>et al.</i> , "Regulation of enzymes of lysine biosynthesis in <i>Corynebacterium glutamicum</i> ," <i>J. Gen. Microbiol.</i> 134:3221-3229, Cambridge University Press (1988).
KK	AS	3	Follettie, M. <i>et al.</i> , "Gene Structure and Expression of the <i>Corynebacterium flavum</i> N13 ask- <i>asd</i> Operon," <i>J. Bacteriol.</i> 175:4096-4103, American Society for Microbiology (1993).
KK	AT	3	Jobling, M.G. and Homes, R.K., "Construction of vectors with the p15a replicon, kanamycin resistance, inducible <i>lacZ</i> α and pUC18 or pUC19 multiple cloning sites," <i>Nucleic Acids Res.</i> 18:5315-5316, Oxford University Press (1990).

EXAMINER	<i>[Signature]</i> 12/12/02	DATE CONSIDERED	5/13/02
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
KK	AA4	6,090,597	07/18/2000	Hirano <i>et al.</i>	435	115	05/07/1997
KK	AB4	5,605,793	02/25/1997	Stemmer, W.P.C.	435	6	02/17/1994
KK	AC4	5,643,790	07/01/1997	Morinaga <i>et al.</i>	435	252.3	02/16/1995
KK	AD4	5,591,577	01/07/1997	Tsuchiya <i>et al.</i>	435	6	05/20/1994
KK	AE4	5,597,727	01/28/1997	Kohama <i>et al.</i>	435	252.32	05/18/1994
KK	AF4	4,710,471	12/01/1987	Katsumata <i>et al.</i>	435	253	11/05/1984
KK	AG4	4,757,009	07/12/1988	Sano <i>et al.</i>	435	106	08/28/1984
KK	AH4	4,778,762	10/18/1988	Miwa <i>et al.</i>	435	320	10/18/1982
KK	AI4	4,822,738	04/18/1989	Miwa <i>et al.</i>	435	252.3	12/21/1987
KK	AJ4	5,426,050	06/20/1995	Morinaga <i>et al.</i>	435	252.32	12/16/1993
KK	AK4	4,346,170	08/24/1982	Sano <i>et al.</i>	435	115	07/23/1980

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KK	AR	4	Kleemann, A. <i>et al.</i> , "Amino Acids," in <i>Ullmann's Encyclopedia of Industrial Chemistry</i> , Vol. A2, pp. 57-97, Weinham: VCH-Verlagsgesellschaft (1985).
KK	AS	4	Liebl, W. <i>et al.</i> , "Transfer of <i>Brevibacterium divaricatum</i> DSM 20297 ^T , ' <i>Brevibacterium flavum</i> ' DSM 20411, ' <i>Brevibacterium lactofermentum</i> ' DSM 20412 and DSM 1412, and <i>Corynebacterium lilium</i> DSM 20137 ^T to <i>Corynebacterium glutamicum</i> and Their Distinction by rRNA Gene Restriction Patterns," <i>Int. J. Syst. Bacteriol.</i> 41:255-260, International Union of Microbiological Societies (1991).
KK	AT	4	Lonsdale, D.M. <i>et al.</i> , "pFC1 to pFC7: A Novel Family of Combinatorial Cloning Vectors," <i>Plant Mol. Biol. Rep.</i> 13:343-345, Kluwer Academic Publishers (1995).

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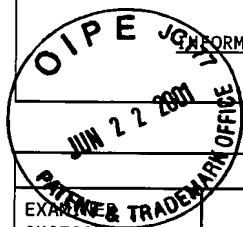
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EXAMINER TRADEMARK

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
KK	AA5	4,489,160	12/18/1984	Katsumata <i>et al.</i>	435	253	08/24/1982
KK	AB5	4,500,640	02/19/1985	Katsumata <i>et al.</i>	435	253	04/13/1982
KK	AC5	4,514,502	04/30/1985	Miwa <i>et al.</i>	435	253	06/10/1982
KK	AD5	4,559,308	12/17/1985	Nutter <i>et al.</i>	435	317	01/27/1983
KK	AE5	4,617,267	10/14/1986	Katsumata <i>et al.</i>	435	91	01/25/1984
KK	AF5	5,929,221	07/27/1999	Kimura <i>et al.</i>	536	23.1	08/22/1996
KK	AG5	5,834,231	11/10/1998	Stoddard <i>et al.</i>	435	42	10/24/1996
KK	AH5	3,959,075	05/25/1976	Inuzuka <i>et al.</i>	195	29	07/15/1975
KK	AI5	5,919,694	07/06/1999	Sugimoto <i>et al.</i>	435	252.33	11/10/1997
KK	AJ5	5,876,983	03/02/1999	Sugimoto <i>et al.</i>	435	106	04/29/1996
KK	AK5	5,804,414	09/08/1998	Moriya <i>et al.</i>	435	69.1	07/01/1996

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL					Yes No
	AM					Yes No
	AN					Yes No
	AO					Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KK	AR	5	Malumbres, M. and Martín, J.F., "Molecular control mechanisms of lysine and threonine biosynthesis in amino acid-producing corynebacteria: Redirecting carbon flow," <i>FEMS Microbiol. Lett.</i> 143:103-114, Federation of European Microbiological Societies, Elsevier Science B.V. (1996).
KK	AS	5	Marcel, T. <i>et al.</i> , "Nucleotide sequence and organization of the upstream region of the <i>Corynebacterium glutamicum</i> lysA gene," <i>Mol. Microbiology</i> 4:1819-1830, Blackwell Scientific Publications (1990).
KK	AT	5	Nakayama, K. <i>et al.</i> , "Microbial Production of Essential Amino Acids with <i>Corynebacterium glutamicum</i> Mutants," in <i>Nutritional Improvement of Food and Feed Proteins</i> , Friedman, ed., Plenum Press, New York, NY, pp. 649-661 (1978).

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EXAMINER
INITIALS

TRADEMARK OFFICE

EXAMINER INITIALS	TRADEMARK	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
KK		AA6 5,640,803	06/24/1997	Kloepper <i>et al.</i>	47	57.6	06/30/1994
KK		AB6 5,633,154	05/27/1997	Schaefer <i>et al.</i>	435	172.3	11/04/1994
KK		AC6 5,556,776	09/17/1996	Tsuchiya <i>et al.</i>	435	106	09/23/1994
KK		AD6 5,547,864	08/20/1996	Kawasaki <i>et al.</i>	435	170	09/08/1994
KK		AE6 5,498,532	03/12/1996	Katsumata <i>et al.</i>	435	106	12/28/1990
KK		AF6 5,380,657	01/10/1995	Schaefer <i>et al.</i>	435	172.3	03/18/1993
KK		AG6 5,158,891	10/27/1992	Takeda <i>et al.</i>	435	320.1	03/13/1990
KK		AH6 5,034,319	07/23/1991	Azuma <i>et al.</i>	435	114	04/07/1989
KK		AI6 5,034,318	07/23/1991	Miwa <i>et al.</i>	435	108	03/22/1990
KK		AJ6 4,601,983	07/22/1986	Nakamori <i>et al.</i>	435	115	06/15/1983
KK		AK6 6,200,785 B1	03/13/2001	Kreutzer <i>et al.</i>	435	115	07/14/1999

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL					Yes No
	AM					Yes No
	AN					Yes No
	AO					Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KK	AR	6	Oguiza, J.A. <i>et al.</i> , "A Gene Encoding Arginyl-tRNA Synthetase Is Located in the Upstream Region of the <i>lysA</i> Gene in <i>Brevibacterium lactofermentum</i> : Regulation of <i>argS-lysA</i> Cluster Expression by Arginine," <i>J. Bacteriol.</i> 175:7356-7362, American Society for Microbiology (1993).
KK	AS	6	Pátek, M. <i>et al.</i> , "Promoters from <i>Corynebacterium glutamicum</i> : cloning, molecular analysis and search for a consensus motif," <i>Microbiology</i> 142:1297-1309, ASM (1996).
KK	AT	6	Pátek, M. <i>et al.</i> , "Identification and transcriptional analysis of the <i>dapB-ORF2-dapA-ORF4</i> operon of <i>Corynebacterium glutamicum</i> , encoding two enzymes involved in L-lysine synthesis," <i>Biotechnol. Lett.</i> 19:1113-1117, Chapman & Hall (November 1997).

EXAMINER

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DATE CONSIDERED

5/13/02

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
KK	AA7	6,221,636 B1	04/24/2001	Hayakawa <i>et al.</i>	435	115	12/05/1997
	AB						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KK	AR	I	"pPMG-LIC Bacterial Cloning Vector and Cloning Kit," in 1999 <i>Research Products Catalog</i> , BD Pharmingen, pg. 839 (1999).
KK	AS	I	Record, M.T. <i>et al.</i> , "Escherichia coli RNA Polymerase (Eo ⁷⁰), Promoters, and the Kinetics of the Steps of Transcription Initiation," in <i>Escherichia coli and Salmonella: Cellular and Molecular Biology</i> , American Society for Microbiology Press, pp. 792-821 (1996).
KK	AT	I	Reinscheid, D.J. <i>et al.</i> , "Cloning, sequence analysis, expression and inactivation of the <i>Corynebacterium glutamicum</i> pta-ack operon encoding phosphotransacetylase and acetate kinase," <i>Microbiology</i> 145:503-513, Society for General Microbiology (February 1999).

EXAMINER <i>Kathb</i>	DATE CONSIDERED 5/13/02
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U.S. PATENT DOCUMENTS

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	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KK	AR	8	Sahm, H. <i>et al.</i> , "Construction of L-lysine-, L-threonine-, or L-isoleucine-overproducing strains of <i>Corynebacterium glutamicum</i> ," <i>Ann. N.Y. Acad. Sci.</i> 782:25-39, The New York Academy of Sciences (1996).
KK	AS	8	Schäfer, A. <i>et al.</i> , "Small mobilizable multi-purpose cloning vectors derived from the <i>Escherichia coli</i> plasmids pK18 and pK19: selection of defined deletions in the chromosome of <i>Corynebacterium glutamicum</i> ," <i>Gene</i> 145:69-73, Elsevier Science B.V. (1994).
KK	AT	8	Van Walsem, H.J. and Thompson, M.C., "Simulated moving bed in the production of lysine," <i>J. Biotechnol.</i> 59:127-132, Elsevier Science B.V. (1997).

EXAMINER <i>Hank Ha</i>	DATE CONSIDERED 5/13/02
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KK	AR	2	Wendisch, V.F. <i>et al.</i> , "Regulation of acetate metabolism in <i>Corynebacterium glutamicum</i> : transcriptional control of the isocitrate lyase and malate synthase genes," <i>Arch. Microbiol.</i> 168:262-269, Springer-Verlag (1997).
KK	AS	2	Derwent WPI, English language abstract of document AN1 (WO 00/63388) (October 26, 2000), Accession No. 2000-687179/200067.
KK	AT	2	English language translation of claims of document AN1 (WO 00/63388) (October 26, 2000).

EXAMINER

Kathleen H

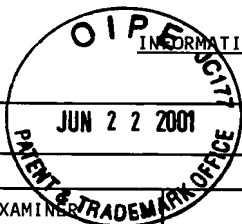
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5/13/02

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1533.1030002/SRL/SEZAPPLICATION NO.
09/722,441APPLICANT
Hanke *et al.*FILING DATE
November 28, 2000GROUP
1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA					
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	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL					Yes No
	AM					Yes No
	AN					Yes No
	AO					Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

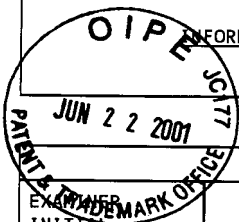
KK	AR	10	English language translation of claims 10 and 11 only of document AN1 (WO 00/63388) (October 26, 2000).
KK	AS	10	Serebrijski, I. <i>et al.</i> , "Multicopy Suppression by <i>asd</i> Gene and Osmotic Stress-Dependent Complementation by Heterologous <i>proA</i> in <i>proA</i> Mutants," <i>J. Bact.</i> 177:7255-7260, American Society for Microbiology (1995).
KK	AT	10	Kalinowski, J. <i>et al.</i> , "Aspartokinase genes <i>lysCα</i> and <i>lysCβ</i> overlap and are adjacent to the aspartate β-semialdehyde dehydrogenase gene <i>asd</i> in <i>Corynebacterium glutamicum</i> ," <i>Mol. Gen. Genet.</i> 224:317-324, Springer-Verlag (1990).

EXAMINER	<i>Kathleen</i>	DATE CONSIDERED	5/13/02
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KK	AR	11	Serwold-Davis, T.M. <i>et al.</i> , "Transformation of <i>Corynebacterium diphtheriae</i> , <i>Corynebacterium ulcerans</i> , <i>Corynebacterium glutamicum</i> , and <i>Escherichia coli</i> with the <i>C. diphtheriae</i> plasmid pNG2," <i>Proc. Natl. Acad. Sci. USA</i> 84:4964-4968, The National Academy of Sciences of the USA (1987).
	AS		
	AT		

EXAMINER

Kathleen L.

DATE CONSIDERED

5/13/02

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